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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,899	10/21/2003	Chang-Hsin Kuo	MR2723-173/DIV	3756
75	590 11/17/2004		EXAMINER	
Asian Pacific INT'L P&T Office			SMITH, JULIE KNECHT	
SUITE 101 3458 ELLICOT	TT CENTER DRIVE		ART UNIT PAPER NUMBER	
	ΓY, MD 21043		3682	
			DATE MAILED: 11/17/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/688,899	KUO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Julie K Smith	3682				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b):	ON. R 1.136(a). In no event, however, may a repl. a reply within the statutory minimum of thirty (; riod will apply and will expire SIX (6) MONTHatute, cause the application to become ABAN	ly be timely filed 30) days will be considered time 1S from the mailing date of this of NDONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 2	6 June 2003.					
	This action is non-final.		•			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-16 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exam	niner.					
10)⊠ The drawing(s) filed on <u>26 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to	the drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	·		• •			
	LAdminer. Note the attached C	Action of form P	10-132.			
Priority under 35 U.S.C. § 119	•					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
) 🔀 Notice of References Cited (PTO-892)	4) 🔲 Interview Sun	nmary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. 		Mail Date rmal Patent Application (PT)	O-152)			
Paper No(s)/Mail Date <u>6/26/03</u> .	6) Other:		• 10 <i>2)</i>			

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims refer to a "self-locking" adjustment mechanism. It is unclear as to how the mechanism is self-locking when it requires manual assistance to lock and unlock a locking tumbler.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: Claim 1 contains no structural relationship and none of the claims

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contain a structural relationship is between the two springs and the two index pins with the rest of the invention.

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- 6. Claim 5 recites the limitation "the internal spline" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.
- 7. Claim 15 recites the limitation "the central member" in line 4. There is insufficient antecedent basis for this limitation in the claim.
- 8. Claim 15 recites the limitation "the distal end ramp" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 10. Claims 1-4, 6-8, 11, 12 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki (4,813,810). Suzuki discloses a locking linear adjustment mechanism (see fig. 57) comprising a locking tumbler (5), an adjustment vernier (12), two end adapters (28, 128), two roll pins (18), two precision balls (8R,L), two locking skirts (206R,L), two springs (24, 124), two locking splines (132R,L), two index pins (30, 130), and two guide shafts (see fig. 57). The locking tumbler comprises a longitudinally extending member having two opposing ends, each end having a recess defined therein and further comprising two opposing pockets (7R, 7L) configured to retain two balls (8R, 8L), said locking tumbler secured in place axially by roll pins

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(18) that tangentially engage grooves in the locking tumbler. The adjustment vernier (12)

includes a central member having two tubular members extending therefrom, wherein each

tubular member includes proximal and distal ends relative to the central member of the

adjustment vernier and a plurality of slits (26, 126) equally spaced about an associated tubular

member. The precision balls are positioned not to be in contact with faces of the locking splines

when the mechanism is in a locked position. Each end adapter (28, 128) extends longitudinally

and has inner and outer ends, the inner end of the adapter being configured for engaging the

distal end of a corresponding tubular member of the adjustment vernier (12) and the outer end of

the adapter engaging another element, said adapter including a hole for allowing guide shafts to

pass through. The locking skirts (206R,L) are configured for fitting around an assembly of

locking splines, index pins and guide shafts.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

3,309,951 to Patt

5,588,464 to Tylosky

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5,778,733 to Stringer

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Julie K Smith whose telephone number is 703-305-3948. The

examiner can normally be reached on Monday-Friday, 8-5:30, (Every other Friday off).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on 703-308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J Jks

November 3, 2004

WILLIAM C. JOYCE PRIMARY EXAMINER